



**Water and Waste Department • Service des eaux et des déchets**

*Environmental Standards Division • Division des Normes Environnementales*

---

July 7, 2017

Marc Balcaen  
Office of Drinking Water  
Manitoba Sustainable Development  
1007 Century Street  
Winnipeg, Manitoba R3H 0W4

Our File: 040-18-18-55-00

Dear Mr. Balcaen:

**RE: JUNE 2017 WATER QUALITY COMPLIANCE  
SUBMISSION FOR THE CITY OF WINNIPEG WATER SUPPLY SYSTEM**

Please find attached on-line and grab turbidity summary reports, on-line and grab chlorine summary reports and the UV summary report for the Water Treatment Plant for June 2017. There are no corrective action reports to be submitted for June 2017.

The June on-line and grab sampling turbidity reports include results obtained for the Water Treatment Plant raw water and the eight filters. The turbidity results for the effluent from the filters met the licence requirements.

The June on-line and grab sampling chlorine reports include results obtained for the Deacon Booster Pumping Station at the Water Treatment Plant. The free chlorine results at the Water Treatment Plant met the licence requirements.

The June UV summary report includes results obtained for the six UV reactors at the Water Treatment Plant. The UV disinfection results met the licence requirements.

Please let me know of any concerns or questions respecting this submission. I may be reached by telephone at 204-986-8359 or by e-mail at [rgrosselle@winnipeg.ca](mailto:rgrosselle@winnipeg.ca).

Yours sincerely,

*Original signed by:*

R. Grosselle  
Manager of Environmental Standards

Enclosures

cc: Dr. L. Richards, Winnipeg Regional Health Authority (email)  
Dr. H. Chang, Winnipeg Regional Health Authority (email)  
Dr. S. Roberecki, Manitoba Health, Seniors and Active Living (email)  
M. L. Geer, CPA, CA (email)  
G. Patton, P.Eng. (email)  
T. Shanks, P.Eng. (email)  
M. Szmon, P.Eng. (email)  
C. Diduck (email)





**CITY OF WINNIPEG**  
 WATER AND WASTE DEPARTMENT  
 WATER SERVICES

Water System Code: 252.00  
 Licence Number: PWS-09-412-01

**WATER TREATMENT PLANT TURBIDITY ON-LINE MONITORING REPORT**

June 2017 Turbidity (NTU)

Date	Raw	Filter #1		Filter #2		Filter #3		Filter #4		Filter #5		Filter #6		Filter #7		Filter #8	
	Avg	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max
1/06/2017	1.67	0.02	0.05	0.01	0.04	0.05	0.07	0.03	0.08	0.02	0.05	0.03	0.07	0.03	0.08	0.05	0.10
2/06/2017	1.50	0.02	0.06	0.01	0.02	0.06	0.10	0.03	0.07	0.02	0.05	0.03	0.05	0.02	0.08	0.05	0.07
3/06/2017	1.44	0.01	0.06	0.01	0.20	0.05	0.12	0.04	0.06	0.02	0.07	0.03	0.09	0.03	0.05	0.07	0.11
4/06/2017	1.37	0.02	0.05	0.01	0.04	0.06	0.11	0.04	0.09	0.02	0.08	0.03	0.09	0.03	0.07	0.07	0.10
5/06/2017	1.07	0.02	0.09	0.01	0.15	0.06	0.10	0.04	0.13	0.02	0.04	0.04	0.06	0.03	0.09	0.07	0.12
6/06/2017	0.95	0.02	0.08	0.01	0.03	0.08	0.14	0.04	0.10	0.02	0.05	0.03	0.10	0.02	0.06	0.07	0.11
7/06/2017	1.00	0.02	0.10	0.01	0.06	0.07	0.15	0.04	0.09	0.02	0.06	0.03	0.09	0.02	0.04	0.09	0.13
8/06/2017	0.88	0.02	0.04	0.01	0.05	0.07	0.15	0.05	0.08	0.01	0.06	0.04	0.06	0.02	0.06	0.09	0.14
9/06/2017	0.71	0.03	0.07	0.00	0.07	0.08	0.11	0.04	0.12	0.02	0.04	0.03	0.08	0.02	0.08	0.10	0.15
10/06/2017	0.85	0.02	0.08	0.01	0.03	0.07	0.14	0.04	0.09	0.01	0.05	0.03	0.07	0.02	0.05	0.11	0.13
11/06/2017	1.23	0.02	0.07	0.01	0.06	0.07	0.14	0.04	0.05	0.01	0.05	0.03	0.06	0.02	0.03	0.05	0.16
12/06/2017	1.32	0.02	0.04	0.02	0.08	0.07	0.28	0.04	0.10	0.01	0.05	0.03	0.05	0.01	0.05	0.01	0.01
13/06/2017	1.33	0.02	0.06	0.01	0.07	0.08	0.10	0.03	0.09	0.01	0.03	0.03	0.08	0.01	0.05	0.01	0.03
14/06/2017	1.37	0.02	0.08	0.02	0.05	0.09	0.16	0.02	0.07	0.01	0.04	0.02	0.05	0.01	0.02	0.01	0.01
15/06/2017	1.36	0.01	0.07	0.02	0.06	0.08	0.16	0.03	0.04	0.01	0.06	0.02	0.03	0.01	0.06	0.01	0.02
16/06/2017	1.30	0.02	0.04	0.01	0.02	0.09	0.11	0.02	0.08	0.01	0.02	0.02	0.07	0.01	0.07	0.01	0.03
17/06/2017	1.23	0.02	0.08	0.02	0.06	0.08	0.16	0.02	0.07	0.01	0.03	0.02	0.08	0.01	0.02	0.01	0.01
18/06/2017	1.25	0.01	0.02	0.01	0.06	0.06	0.15	0.03	0.05	0.01	0.04	0.03	0.04	0.01	0.07	0.01	0.04
19/06/2017	1.19	0.01	0.07	0.00	0.02	0.06	0.09	0.02	0.11	0.01	0.07	0.03	0.09	0.02	0.10	0.01	0.03
20/06/2017	1.25	0.01	0.08	0.01	0.18	0.04	0.12	0.02	0.09	0.01	0.05	0.02	0.16	0.01	0.12	0.01	0.07
21/06/2017	1.03	0.01	0.05	0.00	0.04	0.07	0.09	0.02	0.14	0.01	0.04	0.02	0.06	0.01	0.05	0.01	0.05
22/06/2017	1.09	0.01	0.05	0.01	0.03	0.07	0.13	0.02	0.06	0.01	0.03	0.02	0.08	0.01	0.02	0.02	0.04
23/06/2017	1.21	0.01	0.06	0.01	0.06	0.07	0.15	0.02	0.03	0.01	0.04	0.02	0.04	0.02	0.06	0.02	0.07
24/06/2017	1.13	0.01	0.03	0.01	0.25	0.06	0.08	0.02	0.07	0.01	0.03	0.02	0.07	0.02	0.07	0.02	0.07
25/06/2017	1.14	0.01	0.06	0.01	0.20	0.07	0.14	0.02	0.07	0.01	0.04	0.02	0.08	0.01	0.02	0.03	0.04
26/06/2017	1.13	0.01	0.02	0.01	0.06	0.05	0.14	0.02	0.04	0.01	0.03	0.02	0.04	0.01	0.06	0.03	0.06
27/06/2017	1.36	0.01	0.05	0.01	0.19	0.06	0.08	0.02	0.06	0.01	0.03	0.02	0.06	0.01	0.05	0.03	0.07
28/06/2017	1.86	0.01	0.07	0.01	0.06	0.06	0.12	0.02	0.03	0.01	0.03	0.02	0.05	0.01	0.02	0.04	0.05
29/06/2017	2.68	0.01	0.02	0.01	0.05	0.05	0.13	0.02	0.11	0.01	0.02	0.03	0.04	0.01	0.05	0.04	0.08
30/06/2017	3.49	0.01	0.06	0.01	0.02	0.07	0.08	0.02	0.05	0.01	0.05	0.03	0.07	0.01	0.05	0.04	0.06

Total Number of Measurements Taken, A:	15284	11947	15803	13932	16527	15371	14547	15995
Turbidity Standard for Monitoring Location (NTU):	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Number of Measurements Meeting Standard, B:	15284	11947	15803	13932	16527	15371	14547	15995
Compliance with Turbidity Standard, C = B/A X 100%:	100.000%	100.000%	100.000%	100.000%	100.000%	100.000%	100.000%	100.000%

File Path: N:\Water Treatment Branch\Administration\Reports\Regulatory Submissions\Turbidity\2017\06-June

Submitted By (Print): D.Merredew

Signature: Original Signed by D.Merredew



CITY OF WINNIPEG  
 WATER AND WASTE DEPARTMENT  
 ENVIRONMENTAL STANDARDS DIVISION

**WATER TREATMENT PLANT TURBIDITY GRAB MONITORING REPORT**

Water System Code: 252.00		Turbidity (NTU)																	
Licence No. PWS-09-412-01																			
Date	Raw Water		Filter 1		Filter 2		Filter 3		Filter 4		Filter 5		Filter 6		Filter 7		Filter 8		
	Grab	Analyser	Grab	Analyser	Grab	Analyser	Grab	Analyser	Grab	Analyser	Grab	Analyser	Grab	Analyser	Grab	Analyser	Grab	Analyser	
01-Jun-2017	1.58	1.63	0.08	<0.02	0.07	<0.02	0.07	0.05	0.09	0.06	0.07	0.02	0.08	0.04	OL	OL	0.06	0.08	
02-Jun-2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
03-Jun-2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
04-Jun-2017	1.11	1.46	0.08	<0.02	OL	OL	0.08	0.06	0.08	0.05	0.09	<0.02	0.08	0.04	0.09	0.03	0.10	0.11	
05-Jun-2017	0.88	0.90	0.09	<0.02	0.08	<0.02	0.09	0.07	0.09	0.05	0.06	<0.02	0.07	0.04	0.10	0.03	OL	OL	
06-Jun-2017	0.83	0.86	0.10	0.03	0.08	<0.02	0.09	0.08	OL	OL	0.07	<0.02	0.09	0.05	0.07	<0.02	0.09	0.11	
07-Jun-2017	0.88	0.92	OL	OL	0.09	<0.02	0.10	0.09	0.08	0.05	0.09	0.03	0.07	0.04	0.08	0.02	0.08	0.11	
08-Jun-2017	0.82	0.82	0.08	<0.02	OL	OL	0.08	0.07	0.08	0.06	0.06	<0.02	0.07	0.04	0.08	0.02	0.07	0.14	
09-Jun-2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
10-Jun-2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
11-Jun-2017	0.89	1.11	OL	OL	0.10	<0.02	0.09	0.08	0.09	0.05	0.09	0.02	0.06	0.03	0.07	<0.02	0.08	<0.02	
12-Jun-2017	0.88	1.23	0.08	<0.02	0.10	0.04	OL	OL	0.09	0.04	0.10	<0.02	0.07	0.04	0.09	<0.02	0.08	<0.02	
13-Jun-2017	1.18	1.19	0.11	<0.02	0.10	<0.02	0.11	0.08	0.09	0.04	0.06	<0.02	0.08	0.03	0.11	<0.02	OL	OL	
14-Jun-2017	0.92	1.26	0.11	0.03	0.09	0.02	0.09	0.09	0.07	0.03	0.07	<0.02	OL	OL	0.07	<0.02	0.07	NR	
15-Jun-2017	0.89	1.26	0.08	<0.02	0.10	0.03	OL	OL	0.10	0.04	0.07	<0.02	0.06	0.03	0.07	<0.02	0.07	<0.02	
16-Jun-2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
17-Jun-2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
18-Jun-2017	0.83	1.17	0.07	<0.02	0.10	0.03	OL	OL	0.08	0.04	0.06	<0.02	0.06	0.03	0.07	<0.02	0.07	0.03	
19-Jun-2017	0.80	1.03	0.08	<0.02	0.07	<0.02	0.07	0.07	0.09	0.04	0.07	<0.02	0.10	0.04	OL	OL	0.08	0.03	
20-Jun-2017	0.75	NR	0.06	<0.02	OL	OL	0.07	0.07	0.06	0.03	0.05	<0.02	0.07	0.03	0.06	<0.02	0.06	0.03	
21-Jun-2017	0.76	0.96	0.07	<0.02	0.07	<0.02	0.07	0.07	0.08	0.03	0.05	<0.02	0.06	0.03	OL	OL	0.05	0.03	
22-Jun-2017	0.65	0.94	0.08	<0.02	0.06	<0.02	0.07	0.07	0.06	0.02	0.06	<0.02	OL	OL	0.06	<0.02	0.06	0.04	
23-Jun-2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
24-Jun-2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
25-Jun-2017	0.79	1.10	0.09	<0.02	0.06	<0.02	0.07	0.07	0.06	0.02	0.06	<0.02	OL	OL	0.06	<0.02	0.06	0.06	
26-Jun-2017	0.72	1.02	0.06	<0.02	0.08	0.02	OL	OL	0.06	0.02	0.06	<0.02	0.07	0.02	0.08	<0.02	0.06	0.06	
27-Jun-2017	0.81	1.29	0.07	<0.02	0.06	<0.02	0.06	0.06	0.08	0.03	0.07	<0.02	0.08	0.03	OL	OL	0.05	0.06	
28-Jun-2017	0.73	1.70	OL	OL	0.07	<0.02	0.07	0.07	0.06	0.02	0.06	<0.02	0.06	0.02	0.06	<0.02	0.06	0.06	
29-Jun-2017	0.81	2.46	0.06	<0.02	OL	OL	0.07	0.06	0.08	0.03	0.06	<0.02	0.06	0.03	0.08	<0.02	0.07	0.04	
30-Jun-2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
<b>Total number of measurements taken, A:</b>			18		17		17		20		21		18		17		19		
<b>Turbidity Standard for Monitoring Location (NTU):</b>			0.30		0.30		0.30		0.30		0.30		0.30		0.30		0.30		
<b>Number of measurements meeting standard, B:</b>			18		17		17		20		21		18		17		19		
<b>Compliance with Turbidity Standard, C= B/A X 100%:</b>			100%		100%		100%		100%		100%		100%		100%		100%		

NS: No Sample NA: Not Analyzed OL: Off-Line

**Comments:**

There were no results for the online analyzer for Filter 8 on June 14 and Raw on June 20 due to maintenance requirements.

Report Compiled By: H.Demchenko

Approved in LIMS By: C.Diduck

Date Approved: 7-Jul-17



**WATER TREATMENT PLANT FREE CHLORINE ON-LINE MONITORING REPORT**  
**Deacon Booster Pumping Station**

Water System Code: **252.00**  
Licence Number: **PWS-09-412-01**  
Report Created: 01 July 2017

Report Period: June 2017

Date	BRANCH 1 [mg/L]		BRANCH 2 [mg/L]	
	Average	Minimum	Average	Minimum
01/06/2017	1.10	1.01	1.08	1.05
02/06/2017	1.16	1.02	1.15	1.04
03/06/2017	1.09	0.97	1.10	1.01
04/06/2017	0.98	0.86	1.04	0.90
05/06/2017	1.18	1.00	1.15	1.00
06/06/2017	1.10	1.01	1.11	1.05
07/06/2017	1.17	1.11	1.12	1.05
08/06/2017	1.14	1.05	1.13	1.04
09/06/2017	1.06	0.91	1.10	0.93
10/06/2017	0.94	0.82	1.05	0.97
11/06/2017	1.11	1.02	1.17	1.10
12/06/2017	1.05	0.98	1.11	1.04
13/06/2017	1.08	0.98	1.13	1.05
14/06/2017	1.01	0.94	1.06	0.99
15/06/2017	1.02	0.94	1.07	0.99
16/06/2017	1.10	1.02	1.12	1.06
17/06/2017	1.18	1.11	1.17	1.13
18/06/2017	1.17	1.09	1.15	1.10
19/06/2017	1.13	0.69	1.11	0.71
20/06/2017	1.65	0.69	1.33	0.72
21/06/2017	1.22	1.08	1.27	1.11
22/06/2017	1.07	0.88	1.17	1.05
23/06/2017	1.02	0.95	1.15	1.02
24/06/2017	1.00	0.93	1.08	1.00
25/06/2017	1.04	1.01	1.14	1.08
26/06/2017	1.06	1.01	1.13	1.09
27/06/2017	1.06	0.99	1.15	1.09
28/06/2017	1.04	0.98	1.13	1.06
29/06/2017	1.04	0.95	1.08	1.02
30/06/2017	1.09	1.02	1.14	1.09

Total Number of Measurements, A:	20838	20880
Minimum Free Chlorine Standard:	0.5	0.5
Number of Measurements Meeting Standard, B:	20838	20880
COMPLIANCE, C = B/A X 100%:	100.00	100.00

File Path: N:\Water Treatment Branch\Administration\Reports\Regulatory Submissions\Chlorine\2017\06-June

Submitted By (Print): D.Merredew

Signature: Original Signed by D.Merredew



CITY OF WINNIPEG  
WATER AND WASTE DEPARTMENT  
ENVIRONMENTAL STANDARDS DIVISION

**WATER TREATMENT PLANT CHLORINE GRAB MONITORING REPORT**

Water System Code: 252.00 Licence No. PWS-09-412-01	Deacon Booster Pumping Station Branch 1			Deacon Booster Pumping Station Branch 2		
	Free Chlorine (mg/L)		Total Chlorine (mg/L)	Free Chlorine (mg/L)		Total Chlorine (mg/L)
Date	Analyser	Grab	Grab	Analyser	Grab	Grab
01-Jun-2017	1.12	1.23	1.35	1.14	1.15	1.36
02-Jun-2017	NS	NS	NS	NS	NS	NS
03-Jun-2017	NS	NS	NS	NS	NS	NS
04-Jun-2017	1.06	1.11	1.29	1.00	1.09	1.28
05-Jun-2017	1.26	1.23	1.48	1.21	1.24	1.44
06-Jun-2017	1.14	1.22	1.37	1.22	1.27	1.44
07-Jun-2017	1.23	1.28	1.42	1.17	1.19	1.41
08-Jun-2017	1.08	1.14	1.41	1.12	1.18	1.40
09-Jun-2017	NS	NS	NS	NS	NS	NS
10-Jun-2017	NS	NS	NS	NS	NS	NS
11-Jun-2017	1.14	1.18	1.34	1.18	1.25	1.46
12-Jun-2017	0.98	1.07	1.32	1.08	1.16	1.35
13-Jun-2017	1.21	1.22	1.41	1.26	1.24	1.42
14-Jun-2017	1.06	1.10	1.29	1.10	1.17	1.34
15-Jun-2017	1.05	1.09	1.22	1.08	1.13	1.31
16-Jun-2017	NS	NS	NS	NS	NS	NS
17-Jun-2017	NS	NS	NS	NS	NS	NS
18-Jun-2017	1.19	1.21	1.41	1.17	1.22	1.36
19-Jun-2017	1.14	1.20	1.37	1.12	1.13	1.36
20-Jun-2017	1.29	1.36	1.43	1.23	1.22	1.39
21-Jun-2017	NR	1.22	1.42	NR	1.27	1.44
22-Jun-2017	1.10	1.13	1.31	1.22	1.25	1.44
23-Jun-2017	NS	NS	NS	NS	NS	NS
24-Jun-2017	NS	NS	NS	NS	NS	NS
25-Jun-2017	1.03	1.08	1.19	1.19	1.16	1.36
26-Jun-2017	1.06	1.05	1.19	1.12	1.21	1.44
27-Jun-2017	1.03	1.07	1.23	1.14	1.18	1.36
28-Jun-2017	1.05	1.12	1.25	1.18	1.24	1.37
29-Jun-2017	1.04	1.13	1.26	1.10	1.16	1.26
30-Jun-2017	NS	NS	NS	NS	NS	NS
<b>Total number of measurements taken, A:</b>		21			21	
<b>Chlorine Standard for Monitoring Location (mg/L):</b>		0.50			0.50	
<b>Number of measurements meeting standard, B:</b>		21			21	
<b>Compliance with Chlorine Standard, C= B/A X 100%:</b>		100%			100%	

NS: No Sample NA: Not Analyzed NR: No Result OL: Off-Line

**Comments:**

There were no results for DBPS Branch I and II analyzers on June 21 due to maintenance requirements.

Report Compiled By: H.Demchenko

Approved in LIMS By: C.Diduck

Date Approved: 7-Jul-17



**CITY OF WINNIPEG**  
WATER AND WASTE DEPARTMENT  
WATER SERVICES

Water System Code: 252.00  
Licence Number: PWS-09-412-01

**WATER TREATMENT PLANT UV REPORT**

Report Period: **June 2017**      Report Created: **Saturday, July 01, 2017**

Date	Transmittance %	UVR-D100A			UVR-D200A			UVR-D300A			UVR-D400A			UVR-D500A			UVR-D600A			Total			% Volume Treated To Dose					
		Untreated	Below	Total	Untreated	Below	Total	Untreated	Below	Total	Untreated	Below	Total	Untreated	Below	Total	Untreated	Below	Total	Untreated	Below	Total						
01/06/2017	95.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	55.21	59.64	59.64	0.00	0.00	0.00	0.00	0.00	85.14	85.14	200.00	200.00	100.00						
02/06/2017	95.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	70.88	18.36	18.36	0.00	0.00	39.77	39.77	0.00	79.10	79.10	208.12	208.12	100.00						
03/06/2017	95.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	78.62	0.00	0.00	0.00	0.00	58.36	58.36	0.00	77.62	77.62	214.60	214.60	100.00						
04/06/2017	95.55	0.00	0.00	0.00	0.00	0.00	25.72	0.00	0.00	64.78	9.67	9.67	0.00	0.00	68.38	68.38	0.17	49.34	44.01	0.17	0.49	212.56	99.69					
05/06/2017	95.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	58.28	66.68	66.68	0.00	0.00	0.00	0.00	0.00	84.62	84.62	0.00	0.00	209.58	100.00					
06/06/2017	95.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	59.94	75.80	75.80	0.00	0.00	0.00	0.00	0.00	82.68	82.68	0.00	0.00	218.43	100.00					
07/06/2017	95.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	62.67	78.94	78.94	0.00	0.00	0.00	0.00	0.00	84.59	84.59	0.00	0.00	226.20	100.00					
08/06/2017	95.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	64.17	80.84	80.84	0.00	0.00	0.00	0.00	0.00	84.97	84.97	0.00	0.00	229.98	100.00					
09/06/2017	95.30	0.00	0.00	0.00	0.00	0.00	17.18	0.00	0.00	44.50	80.25	80.25	0.00	0.00	23.17	23.17	0.00	64.88	64.88	0.00	0.00	229.97	100.00					
10/06/2017	95.47	0.00	0.00	0.00	0.00	0.00	76.05	0.00	0.00	0.00	79.75	79.75	0.00	0.00	0.00	0.00	0.00	74.21	74.21	0.00	0.00	230.00	100.00					
11/06/2017	95.64	0.00	0.00	0.00	0.00	0.00	76.49	0.00	0.00	0.00	79.88	79.88	0.00	0.00	0.00	0.00	0.00	73.60	73.60	0.00	0.00	229.97	100.00					
12/06/2017	95.59	0.00	0.00	0.00	0.00	0.00	75.36	0.00	0.00	0.00	78.60	78.60	0.00	0.00	0.00	0.00	0.00	71.52	71.52	0.00	0.00	225.48	100.00					
13/06/2017	95.58	0.00	0.00	0.00	0.00	0.00	70.46	0.00	0.00	0.00	71.70	71.70	0.00	0.00	0.00	0.00	0.00	64.26	64.26	0.00	0.00	206.41	100.00					
14/06/2017	95.63	0.00	0.00	0.00	0.00	0.00	67.94	0.00	0.00	0.00	68.75	68.75	0.00	0.00	0.00	0.00	0.00	61.80	61.80	0.00	0.00	198.49	100.00					
15/06/2017	95.69	0.00	0.00	0.00	0.00	0.00	65.80	0.00	0.00	0.00	67.88	67.88	0.00	0.00	0.00	0.00	0.00	61.33	61.33	0.00	0.00	195.01	100.00					
16/06/2017	95.73	0.20	0.20	0.56	0.96	0.00	39.69	0.00	0.05	21.78	21.89	21.89	0.00	0.00	0.00	0.00	0.00	66.10	66.10	0.25	0.25	197.04	98.74					
17/06/2017	95.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	56.45	66.06	66.06	0.00	0.00	0.00	0.00	0.00	73.74	73.74	0.00	0.00	200.89	100.00					
18/06/2017	95.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	52.57	52.57	52.57	0.00	0.00	0.00	0.00	0.00	69.15	69.15	0.00	0.00	187.78	100.00					
19/06/2017	95.43	0.00	0.00	1.57	1.57	0.00	0.00	0.00	0.03	44.69	44.75	44.75	0.03	0.05	54.96	55.04	0.02	58.19	58.23	0.08	0.10	159.41	99.89					
20/06/2017	95.24	0.00	0.00	26.87	26.87	0.00	0.00	0.00	0.10	48.38	48.59	48.59	0.05	0.05	22.36	22.45	0.00	54.17	54.17	0.15	0.15	151.78	99.80					
21/06/2017	95.78	0.00	0.00	23.11	23.11	0.00	47.26	0.00	0.00	74.06	74.06	74.06	0.00	0.00	0.00	0.00	0.00	81.29	81.29	0.00	0.00	225.72	100.00					
22/06/2017	95.80	0.00	0.00	0.00	0.00	0.00	72.94	0.00	0.00	74.40	74.40	74.40	0.00	0.00	60.37	60.37	0.00	21.42	21.42	0.00	0.00	229.13	100.00					
23/06/2017	95.86	0.00	0.00	28.98	28.98	0.00	73.39	0.00	0.00	71.91	71.91	71.91	0.00	0.00	0.00	0.00	0.14	4.9	37.81	38.44	0.00	0.15	212.08	99.70				
24/06/2017	95.98	0.00	0.00	53.22	53.22	0.00	66.46	0.00	0.00	74.93	74.93	74.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	194.61	100.00				
25/06/2017	96.04	0.00	0.00	52.64	52.64	0.00	65.24	0.00	0.00	74.10	74.10	74.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	191.97	100.00				
26/06/2017	96.10	0.00	0.00	52.63	52.63	0.00	65.34	0.00	0.00	74.04	74.04	74.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	192.01	100.00				
27/06/2017	96.26	0.00	0.00	52.72	52.72	0.00	65.77	0.00	0.00	74.10	74.10	74.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	192.60	100.00				
28/06/2017	96.23	0.00	0.00	29.25	29.25	0.00	71.21	0.00	0.00	60.53	60.53	60.53	0.00	0.00	0.00	0.00	0.00	31.01	31.01	0.00	0.00	192.01	100.00					
29/06/2017	96.22	0.00	0.00	0.00	0.00	0.00	73.89	0.00	0.00	49.97	49.97	49.97	0.00	0.00	0.00	0.00	0.00	68.87	68.87	0.00	0.00	193.74	100.00					
30/06/2017	96.20	0.00	0.00	0.00	0.00	0.00	66.60	0.00	0.00	58.54	58.54	58.54	0.00	0.00	0.00	0.00	0.00	68.86	68.86	0.00	0.00	193.99	100.00					
<b>Total [ML]:</b>		0.20	0.20	321.55	321.95	0.00	1182.78	1182.78	0.19	0.19	1469.49	1469.96	0.07	0.10	1199.73	1199.90	0.14	0.49	287.86	288.49	0.19	0.51	1687.49	1688.19	0.80	1.49	6148.89	6151.17

Water Volume [%]:  
Untreated: 0.01 %  
Below Dose: 0.02 %  
To Dose: 99.96 %

Submitted By (Print): D.Merredew

Signature: Original signed by D.Merredew